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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,812	09/18/2003	Paul Oommen	873.0128.U1(US)	6617
29683 7590 06/21/2007 HARRINGTON & SMITH, PC 4 RESEARCH DRIVE SHELTON, CT 06484-6212			EXAMINER NGUYEN, LONG P	
			ART UNIT 2616	PAPER NUMBER
			MAIL DATE 06/21/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/665,812

Applicant(s)

OOMMEN, PAUL

Examiner

Long P. Nguyen

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-44 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>02/09/2006, 02/09/2006</u> | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claim 1-4, 6-10, 12-16, 18-24, 26-28, 31-37, 39-41 and 43 are rejected under 35 U.S.C. 102(e) as being anticipated by Basilier (US 2003/0073453).

As for claim 1, Basilier shows a plurality of different networks coupled together by communication links, further comprising: at least one multicast agent for coupling a multicast message transmission from a first network to a second network (**Figure 1, E.g. PSDN**), said at least one multicast agent modifying the multicast message transmission from a multicast protocol of the first network to a multicast protocol of the second network **[0024]**.

As for claim 2, 8,14 Basilier shows where said first network comprises an IP network (**Figure 1, IP or RP network**), and where said second network comprises a non-IP network (**Figure 1, e.g. IS-2000**).

As for claim 3, 9,15 Basilier shows where said first network comprises a wireless IP network (**Figure 1, RP network**), and where said second network comprises a non-IP network (**Figure 1, IS-2000**).

As for claim 4 and 10,16 Basilier shows where said first network comprises a wireless IP network (**Figure 1, RP network**), and where said second network comprises a wireless local area network (WLAN) (**Figure 2**).

As for claim 6 and 12, Basilier shows comprising receiving the multicast message transmission from said multicast agent with at least one mobile host coupled to said second network (**Figure 1**).

As for claim 7, Basilier shows operate a data communications system comprising a plurality of different networks coupled together by communication links, comprising initiating a multicast session from a multicast server coupled to a first network (**Figure 1**); receiving a multicast message transmission from the multicast server with at least one multicast agent located in the first network **[0025]**; and modifying with the at least one multicast agent the multicast message transmission from a multicast protocol of the first network to a multicast protocol of a second network **[0024]**.

As for claim 13, Basilier shows simultaneously send a message to a plurality of mobile hosts through a plurality of different networks, comprising initiating a multicast

session with the plurality of mobile hosts with a multicast server coupled to a first network **(Figure 1)**; receiving a multicast message transmission for the plurality of mobile hosts with at least one multicast agent located in the first network **[0025]**; modifying with the at least one multicast agent the multicast message transmission from a multicast protocol of the first network to a multicast protocol of a second network **[0025]**; and delivering the multicast message transmission, in the second multicast protocol, to those mobile hosts that are wirelessly coupled to the second network **[0025]**.

As for claim 19, Basilier shows simultaneously send a message from a server coupled to an end network, via at least one intermediate network, to a plurality of mobile devices coupled to the at least one intermediate network through a plurality of access networks, comprising setting up a multicast session between the server and the plurality of mobile devices via the end network **[0023]**, the at least one intermediate network **(Figure 1, e.g. Content server)**, a plurality of the access networks **(Figure 1, e.g. RP network or BS/PCF)**, and a plurality of agents coupled between the end network **(Figure 1, e.g. PDSN)** and the at least one intermediate network **(Figure1, e.g. IS-2000 network)**, and between the at least one intermediate network and the plurality of access networks **(Figure 1, e.g. RP network)**; receiving a multicast transmission at an agent coupled between at least one access network and the at least one intermediate network **[0005]**; directing the multicast transmission only to an access network **[0024]** or access networks where the agent has knowledge of at least one mobile device that is to receive the multicast transmission**[0006]**; where directing includes modifying with the at

least one agent the multicast transmission from a protocol of the network that the multicast transmission was received from to a protocol of the network that the multicast transmission is to be directed to **[0025]**; and delivering the multicast transmission to the plurality of mobile devices **[0026]**, using a protocol appropriate for each access network to which the plurality of mobile devices are attached (**Figure 1, note: The protocol uses between MS and BS are CDMA 2000 AKA IS-2000**).

As for claim 20 and 33 Basilier shows where at least one network comprises an IP network (**Figure 1**).

As for claim 21 and 34 Basilier shows where at least one network comprises a non-IP network (**Figure 1, e.g. IS-2000 the protocol used between MS and BS**).

As for claim 22 and 35, Basilier shows where at least one access network comprises a wireless IP network (**Figure 1, RP network**).

As for claim 23 and 36, Basilier shows where at least one access network comprises a non-IP network (**Figure 1, e.g. IS-2000 is the protocol used between MS and BS**).

As for claim 24 and 37, Basilier shows where at least one access network comprises a wireless local area network (WLAN) (**Figure 1, Note: WLAN would be the MS1 and PCF1 interconnected with RP network**).

As for claim 26 and 39, Basilier shows where at least one access network comprises a CDMA network (**Figure 1, e.g. IS-2000**).

As for claim 27 and 40, Basilier shows where at least one access network comprises a low power RF network **[0036]**.

As for claim 28 and 41, Basilier shows where at least a wireless access network **(Figure 1, e.g. IS-2000)**.

As for claim 31 and 43, Basilier shows where messaging between networks is based on any messaging protocol supported between networks **[0032]**.

As for claim 32, Basilier shows simultaneously send a message from a server coupled to an end network, via at least one intermediate network, to a plurality of mobile devices coupled to the at least one intermediate network through a plurality of access networks, comprising means for setting up a multicast session between the server and the plurality of mobile devices via the end network **[0031]**, the at least one intermediate network **(Figure 1, e.g. Content server)**, a plurality of the access networks **(Figure 1, e.g. RP network or BS/PCF)**, and a plurality of agents coupled between the end network **(Figure 1, e.g. PDSN)** and the at least one intermediate network **(Figure1, e.g. IS-2000 network)**, and between the at least one intermediate network and the plurality of access networks **(Figure 1, e.g. RP network)**; a receiver for receiving a multicast transmission **[0023]** and an access networks where the agent has knowledge of at least one mobile device that is to receive the multicast transmission **[0025]**; said agent further comprising means for modifying with the at least one agent the multicast transmission from a protocol of the network that the multicast transmission was received from to a protocol of the network that the multicast transmission is to be directed to for

delivering the multicast transmission to the plurality of mobile devices [0025], using a protocol appropriate for each access network to which the plurality of mobile devices are attached (**Figure 1, note: The protocol uses between MS and BS are CDMA 2000 AKA IS-2000**)

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 5, 11, 17, 25, 29, 30, 38, 42, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basilier (US 2003/0073453) in view of Paila et al. (US 2003/0100325).

As for claim 5, 11, 17, 25 and 38, Basilier shows a wireless IP network (**Figure 1, e.g. RP network**), but does not show where said second network comprises a Bluetooth network. However, Paila teaches a Bluetooth network [0039]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the access network of Basilier with the Bluetooth network of Paila in order to utilize a plurality of network.

4. Claim 29 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basilier in view of Aaltonen et al. (US 2002/0023264).

As for claim 29 and 42 Basilier shows an access network (**Figure 1**), but Basilier does not show where the access network is an infrared optical network. However, Aaltonen shows an infrared optical network [0021]. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the access network of Basilier with the Infra red optical network of Aaltonen in order to utilize a plurality of different network for data transmission.

5. Claim 30 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basilier in view of Watanuki (US 6,853,639).

As for claim 30 and 44, Basilier shows where there are a plurality of said access networks (Figure 1, e.g. RP network and IS-2000 network) coupled to an intermediate network via a first agent (Figure 1, PDSN), networks coupled thereto having at least one mobile device that has enrolled to become part of the multicast session during the set up process [0035], and where each agent directs a received multicast transmission only to a recorded network or networks [0035]. But Basilier does not show a second agent. However, Watanuki shows a second agent (**Figure 1, e.g. Interlan device**). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the communication system of Basilier with a second agent of Watanuki in order to covert a plurality for multicast protocols (**Watanuki Col. 6 line 16-20**).

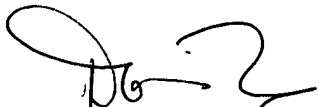
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long P. Nguyen whose telephone number is (571)-272-9740. The examiner can normally be reached on Monday - Thursday 7:30 - 5:00 EST Alternate Friday 7:30-4:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on 571-272-7629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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